



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):

Mark S. Moir et al.

Title:

OBSTRUCTION-FREE MECHANISM FOR ATOMIC UPDATE OF

MULTIPLE NON-CONTIGUOUS LOCATIONS IN SHARED MEMORY

Application No.: 10/620,747

Filed:

July 16, 2003

Examiner:

Unknown

Group Art Unit:

2125

Atty. Docket No.: 004-8515

Confirmation No.:

8970

January 27, 2006

Mail Stop Amendment COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, VA 22313-1450

## INFORMATION DISCLOSURE STATEMENT 37 C.F.R. § 1.97(b)

Dear Sir:

1

Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the undersigned brings to the Examiner's attention in the above-identified application the patents, publications, applications or other information identified in the attached:

	Form(s) PTO/SB/08A (N/A page(s), with copy of no reference(s)).
$\boxtimes$	Form(s) PTO/SB/08B (1 page(s), with copy of 10 reference(s)).
	Listing of Pending Applications (N/A page(s), with copy of no application(s))
	Other: N/A

Citation of such information shall not be construed as (i) an admission that the information necessarily is, or corresponds to, prior art with respect to the instant invention, (ii) a representation that a search has been made, other than as described herein, or (iii) an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

For each item of information listed that is not in the English language, the undersigned has provided a concise explanation of the relevance through (i) an English language abstract. (ii) an English language equivalent application, or (iii) if cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action that indicates the degree of relevance found by the foreign office.

## **CERTAIN COPIES NOT INCLUDED**

Pursuant to operative regulations, certain copies need not be provided and corresponding information is identified in this Information Disclosure Statement by citation only. In particular,  $\boxtimes$ In accordance with 37 C.F.R. § 1.98(a)(2)(ii), copies of cited U.S. Patents and U.S. Patent Application Publications are not included. П Certain information was submitted to, or cited by, the Office in Application No(s). N/A, filed N/A, to which the above-identified application claims priority under 35 U.S.C. § 120. In accordance with 37 C.F.R. § 1.98(d), copies of that information are not included. Pursuant to 1287 OG 163 (October 19, 2004), for those cited pending U.S. patent applications filed (or which entered the national stage under 35 U.S.C. § 371) on or after June 30, 2003 or which are otherwise stored in the USPTO's Image File Wrapper system, copies are not included. **FEE AUTHORIZATION** П This Information Disclosure Statement is filed within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) or within three months of entry of the national stage as set forth in § 1.491 in an international application. Therefore, no fee is required.  $\boxtimes$ The undersigned believes that this Information Disclosure Statement is being filed before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required. If however, this Information Disclosure Statement is filed after the period specified in § 1.97(b), the undersigned hereby authorizes the Commissioner to charge the fee set forth in § 1.17(p) to Deposit Account No. 50-0631. Respectfully submitted, **CERTIFICATE OF MAILING OR TRANSMISSION** I hereby certify that, on the date shown below, this correspondence is being deposited with the US Postal Service with sufficient postage as first class mail and addressed as shown above.

EXPRESS MAIL LABEL:

imberley Elcess

27-Jan-06

facsimile transmitted to the US Patent and Trademark Office.

Kimberley Elcess, Reg. No. 36,128

Agent for Applicant(s)

(512) 338-6321 (direct)

(512) 338-6300 (main)

(512) 338-6301 (fax)

PTO/SB/08B	Substitu	te for form 1449/PTO)	Attorney Docket No.:	004-8515		
			Application No.:	10/620,747		
IN	FORMA	TION DISCLOSURE STATEMENT BY APPLICANT	First Named Inventor:	Mark S. Moir		
		2 1 2008	Filing Date:	July 16, 2003		
JAN 3 1 2000			Group Art Unit:	2125		
			Examiner Name:	Not yet assigned		
Sheet I of I			Date Submitted:	January 27, 2006		
NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.1	Include name of author (in CAPITAL LETTERS), title of articl (book, magazine, journal, serial, symposium, catalog, etc.), da publisher, city and/or country where	te, page(s), volume-issue published.	e number(s),		
	1	AFEK, Yehuda, "Atomic Snapshots of Shared Memory," Journal of the	ACM, vol. 40, no. 4, pp. 6	873-890, 1993.		
	AGESEN, Ole at el., "An Efficient Meta-Lock for Implementing Ubiquitous Synchronization," ACM SIGPLAN Notices, vol. 34, no. 10, pp. 207-222, October 1999.					
	ANDERSON, James H. et al., "Universal Constructions for Large Objects," <i>IEEE Transactions on Parallel and Distributed Systems</i> , vol. 10, no. 12, pp. 1317-1332, 1999.  MELLOR-CRUMMEY, J., et al., "Algorithms for Scalable Synchronization on Shared-Memory Multiprocessors, <i>ACM Transactions on Computer Systems</i> , vol. 9, no. 1, pp. 21-65, February 1991.					
	5	PRAKASH, Sundeep et al., "Non-Blocking Algorithms for Concurrent D University of Florida, July 1, 1991 [URL: http://citeseer.ist.psu.edu/prak				
	6	PRAKASH, Sundeep et al., "A Nonblocking Algorithm for Shared Queues Using Compare-and-Swap," IEEE Transactions on Computers, vol. 43, no. 5, pp. 548-559, May 1994.  SHANN, Chien-Hua et al., "A Practical Nonblocking Queue Algorithm Using Compare-and Swap," Proceedings of the Seventh International Conference on Parallel and Distributed Systems p. 470, IEEE Computer Society, Washington, D.C., 2000.				
	7					
	8 SHAVIT, N., et al., "Elimination Trees and the Construction of Pools and Stacks," Theory of Computing Systems, vol. 30, pp. 645-670, 1997.  9 STONE, Janice M., "A simple and correct shared-queue algorithm using Compare-and-Swap," Proceedings of the 1990 ACM/IEEE Conference on Supercomputing, pp. 495-504, IEEE Computer Society, New York, NY, 1990.  10 VALOIS, John D., "Lock-Free Linked Lists Using Compare-and-Swap," Proceedings of the Fourteenth ACM Symposium on Principles of Distributed Computing, pp. 214-222, ACM Press, New York, NY 1995.					
			·			

**Date Considered** 

**Examiner Signature** 

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional).

Applicant is to place a check mark here if English language Translation is attached.